

Title (en)

Recording apparatus as well as recording unit and recording head for using same apparatus

Title (de)

Aufzeichnungsapparat sowie Aufzeichnungseinheit und Aufzeichnungskopf für denselben

Title (fr)

Appareil d'enregistrement ainsi qu'unité d'enregistrement et tête d'enregistrement à utiliser dans le même appareil

Publication

**EP 0803358 A3 19990303 (EN)**

Application

**EP 97302780 A 19970423**

Priority

- JP 10159696 A 19960423
- JP 328097 A 19970110

Abstract (en)

[origin: EP0803358A2] In ink jet recording methods, the continuous type is high in recording speed but difficult to simplify the device due to restoration of unnecessary ink or the like, while the on-demand type is simplified in device structure but difficult to speed up recording rate. An recording apparatus employing a recording head structured by: having a head section formed by a transparent electrode 2a formed on a substrate, a photoconductive layer 4 formed on the transparent electrode 2a, and a means for supplying ink 6 onto the photoconductive layer 4, and an opposing electrode 1a, in this order; the means for supplying ink 6 and the opposing electrode 1a being arranged to have a gap sufficient for inserting a medium to be recorded therethrough; having a power supply 3 for applying voltage to between the transparent electrode 2a and the opposing electrode 1a, and a light irradiating means 5 for supplying light corresponding to a desired image pixel to the photoconductive layer, enabling high-precision and high-quality output printing of characters. <IMAGE>

IPC 1-7

**B41J 2/015**

IPC 8 full level

**B41J 2/04** (2006.01); **B41J 2/06** (2006.01)

CPC (source: EP)

**B41J 2/04** (2013.01); **B41J 2/06** (2013.01); **B41J 2002/061** (2013.01)

Citation (search report)

- [A] US 3484162 A 19691216 - CLARK HAROLD E
- [A] US 4794463 A 19881227 - TAMURA SAKAE [JP], et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 17, no. 623 (M - 1511) 17 November 1993 (1993-11-17)
- [A] PATENT ABSTRACTS OF JAPAN vol. 8, no. 58 (P - 261) 16 March 1984 (1984-03-16)
- [A] PATENT ABSTRACTS OF JAPAN vol. 11, no. 391 (P - 649) 22 December 1987 (1987-12-22)
- [A] PATENT ABSTRACTS OF JAPAN vol. 11, no. 391 (P - 649) 22 December 1987 (1987-12-22)
- [A] PATENT ABSTRACTS OF JAPAN vol. 96, no. 8 30 August 1996 (1996-08-30)
- [A] PATENT ABSTRACTS OF JAPAN vol. 17, no. 652 (M - 1520) 3 December 1993 (1993-12-03)

Cited by

EP1645423A3; EP1693217A3; US7377622B2; US7931355B2; US8033649B2; US7566115B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 0803358 A2 19971029; EP 0803358 A3 19990303; JP H106506 A 19980113**

DOCDB simple family (application)

**EP 97302780 A 19970423; JP 328097 A 19970110**